

Storm Data and Unusual Weather Phenomena - August 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Northeast				
WINNESHIEK COUNTY --- 2.1 SE CALMAR [43.16, -91.85], 1.4 S CALMAR [43.16, -91.88], 1.4 S FESTINA [43.10, -91.88], 1.8 SE FESTINA [43.10, -91.85]				
	08/08/09 05:15 CST		1K	Flash Flood (due to Heavy Rain)
	08/08/09 07:45 CST		1K	Source: Trained Spotter
A trained spotter reported torrential rainfall rates causing water to flow over sections of Highway 150 between Calmar and the Fayette County line.				
WINNESHIEK COUNTY --- 0.8 ENE CALMAR [43.18, -91.86]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: COOP Observer
An observer reported 2.32 inches of rain during the preceding 24-hours.				
Slow moving thunderstorms produced very heavy rainfall and flash flooding across parts of northeast Iowa in the early morning hours on August 8th. A Trained Spotter in southern Winneshiek County reported torrential rainfall rates causing water to flow over Highway 150 in southern Winneshiek County.				
CHICKASAW COUNTY --- 3.5 SE FREDRICKSBURG [42.93, -92.15], 3.4 ESE FREDRICKSBURG [42.95, -92.14]				
	08/19/09 14:09 CST		20K	Tornado (EF0, L: 1.08 mi , W: 40 yd)
	08/19/09 14:14 CST		10K	Source: Trained Spotter
A tornado 4 miles southeast of Fredericksburg damaged a barn and an attached garage.				
FAYETTE COUNTY --- 2.5 N DONNAN [42.94, -91.88], 2.2 W WEST UNION SCOTT ARP [42.98, -91.84]				
	08/19/09 14:50 CST		22K	Tornado (EF0, L: 3.53 mi , W: 40 yd)
	08/19/09 15:00 CST		45K	Source: Law Enforcement
A tornado 2 miles west of West Union caused tree damage at a residence and roof damage to an empty poultry barn. Several corn fields also received damage.				
HOWARD COUNTY --- 1.5 SSE SARATOGA [43.35, -92.41]				
	08/19/09 14:50 CST		0	Tornado (EF0, L: 0.10 mi , W: 20 yd)
	08/19/09 14:50 CST		2K	Source: Public
An aerial crop assessment survey determined a brief tornado touched down in the middle of a corn field between Elma and Saratoga in rural Howard County, IA.				
ALLAMAKEE COUNTY --- WAUKON [43.27, -91.48]				
	08/19/09 15:00 CST		0	Heavy Rain
	08/19/09 17:30 CST		0	Source: Newspaper
An observer recorded 3.14 inches of rain during the afternoon of August 19th. Street flooding was reported in Waukon.				
WINNESHIEK COUNTY --- 1.5 NE CALMAR [43.20, -91.86], 1.3 N NORDNESS [43.25, -91.78]				
	08/19/09 15:00 CST		5K	Tornado (EF0, L: 5.29 mi , W: 25 yd)
	08/19/09 15:15 CST		35K	Source: NWS Storm Survey
A tornado touch down one mile northeast of Calmar with sporadic tree and corn field damage.				
WINNESHIEK COUNTY --- 1.0 W NORDNESS [43.23, -91.80]				
	08/19/09 15:05 CST		0	Funnel Cloud
	08/19/09 15:05 CST		0	Source: Public
FAYETTE COUNTY --- 5.5 N CLERMONT [43.08, -91.68]				
	08/19/09 15:37 CST		0	Funnel Cloud
	08/19/09 15:37 CST		0	Source: Law Enforcement
A warm front over southern Iowa moved north into southern Minnesota and western Wisconsin during the afternoon hours of August 19th. Thunderstorms developed along the warm front and spawned four EF0 tornadoes as it shifted north during the afternoon hours.				

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Garage damage by a brief tornado that hit a rural farm southeast of Fredericksburg, IA on August 19, 2009. Photo by Todd Shea, NOAA/NWS La Crosse.

MINNESOTA, Southeast

WINONA COUNTY --- 3.9 SW UTICA [43.93, -92.02]

08/03/09 00:35 CST	0	Hail (1.00 in)
08/03/09 00:35 CST	0	Source: Public

A cluster of thunderstorms moved across portions of southeast Minnesota and produced large hail in southern Winona County on August 3rd.

WINONA COUNTY --- 1.1 WNW LEWISTON [43.99, -91.90]

08/19/09 16:58 CST	0	Funnel Cloud
08/19/09 17:03 CST	0	Source: Emergency Manager

A warm front over southern Iowa moved north into southern Minnesota and western Wisconsin during the late afternoon hours of August 19th. Thunderstorms developed along the warm front and produced a funnel cloud near the city of Lewiston in southern Winona County.

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WISCONSIN, Southwest				
(WI-Z017) TAYLOR, (WI-Z029) CLARK				
	08/01/09 00:00 CST		0	Drought
	08/07/09 12:00 CST		17K	
As a carry over from July drought conditions reached the severe level in parts of north central and northwest Wisconsin during the first week of August before rainfall impacted the area around August 7th.				
TAYLOR COUNTY --- 7.5 W MEDFORD [45.13, -90.50]				
	08/03/09 00:12 CST		0.50K	Thunderstorm Wind (EG 50 kt)
	08/03/09 00:12 CST		0	Source: Public
The general public reported a tree down across a roadway eight miles west of Medford.				
A line of thunderstorms tracked across portions of north central Wisconsin and produced damaging winds in Taylor County on August 3rd.				
LA CROSSE COUNTY --- 1.1 N ONALASKA [43.90, -91.23]				
	08/03/09 01:00 CST		15K	Lightning
	08/03/09 01:00 CST		0	Source: Newspaper
Lightning found an underground natural gas service line and ignited space between the basement ceiling and first floor. No one was injured.				
LA CROSSE COUNTY --- 0.8 E ONALASKA [43.88, -91.21]				
	08/03/09 01:15 CST		1K	Lightning
	08/03/09 01:15 CST		0	Source: Newspaper
Lightning caused a small fire in a deck planter and damaged a microwave oven.				
MONROE COUNTY --- 0.6 S OAKDALE [43.96, -90.38]				
	08/03/09 02:18 CST		25K	Lightning
	08/03/09 02:18 CST		0	Source: Newspaper
The Oakdale Credit Union was damaged from a fire that apparently was sparked by a lightning strike.				
Rounds of thunderstorms passing through during the early morning hours of Monday, August 3rd led to the ignition of several structure fires in parts of western Wisconsin.				
BUFFALO COUNTY --- 1.8 ESE MONDOVI [44.56, -91.65], 1.8 E MONDOVI ARPT [44.57, -91.54], 2.0 ENE MONDOVI ARPT [44.58, -91.54], 2.0 E MONDOVI [44.57, -91.64]				
	08/08/09 01:00 CST		1.20K	Flood (due to Heavy Rain)
	08/08/09 14:00 CST		16K	Source: NWS Employee
The Buffalo River rose out of its banks from excessive rain overnight.				
JACKSON COUNTY --- 2.0 W SHEPPARD [44.25, -90.79], 1.4 SW DISCO [44.26, -91.02], 1.1 WNW PRICE [44.58, -91.07], 7.4 NNW MERRILLAN [44.55, -90.88]				
	08/08/09 01:00 CST		50K	Flash Flood (due to Heavy Rain)
	08/08/09 05:30 CST		50K	Source: Law Enforcement
Law Enforcement officials reported several washed out county roads in the northern half of Jackson County and vehicles submerged in the city of Black River Falls. Several cooperative observers reported over six inches of rain in the northern portions of Jackson County.				
TREMPEALEAU COUNTY --- 1.1 NE ELEVA [44.59, -91.46], 2.4 ENE OSSEO [44.59, -91.18], 4.4 SE OSSEO [44.53, -91.17], 2.7 SSE ELEVA [44.54, -91.45]				
	08/08/09 01:30 CST		20K	Flash Flood (due to Heavy Rain)
	08/08/09 05:00 CST		20K	Source: Law Enforcement
Law Enforcement officials reported water over County Roads O and H west of Osseo and a mudslide over County Road D two miles north of Strum. Cooperative observer reported around six inches of rain at Osseo and Doppler Radar estimated four to six inches of rain in northern Trempeau County.				

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TREMPEALEAU COUNTY --- 2.5 W ELEVA [44.57, -91.52], 2.5 W ELEVA [44.58, -91.52], 0.5 WSW ELEVA [44.58, -91.48], 1.9 ESE ELEVA [44.57, -91.44], 1.8 SE ELEVA [44.56, -91.44]				
	08/08/09 02:00 CST		1K	Flood (due to Heavy Rain)
	08/08/09 14:30 CST		10K	Source: NWS Employee
Excessive rainfall overnight led to relatively rapid rises on the Buffalo River and associated forks. The river rose out of its banks and impacted Eleva along with several nearby farms.				
BUFFALO COUNTY --- 0.4 E MONDOVI [44.57, -91.67]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: Public
An observer measured 4.22 inches of rain during the preceding 24-hours.				
BUFFALO COUNTY --- 0.9 NNW BUFFALO CITY [44.24, -91.86]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: COOP Observer
An observer measured 4.32 inches of rain during the preceding 24-hours.				
BUFFALO COUNTY --- 6.0 S MONDOVI [44.48, -91.68]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: COOP Observer
An observer measured 4.86 inches of rain during the preceding 24-hours.				
JACKSON COUNTY --- 0.5 NE HIXTON [44.38, -91.01]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: COOP Observer
An observer measured 6.50 inches of rain during the preceding 24-hours.				
JACKSON COUNTY --- 0.5 NNW TAYLOR [44.33, -91.13]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: Public
An observer measured 5.06 inches of rain during the preceding 24-hours.				
JACKSON COUNTY --- 1.5 ESE VAUDREUIL [44.29, -90.85]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: COOP Observer
An observer measured 6.55 inches of rain during the preceding 24-hours.				
JACKSON COUNTY --- 1.7 E VAUDREUIL [44.30, -90.85]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: Public
An observer measured 6.34 inches of rain during the preceding 24-hours.				
JACKSON COUNTY --- MERRILLAN [44.45, -90.83]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: Public
An observer measured 4.15 inches of rain during the preceding 24-hours.				
TREMPEALEAU COUNTY --- 0.2 NNE OSSEO [44.58, -91.22]				
	08/08/09 07:00 CST		0	Heavy Rain
	08/08/09 07:00 CST		0	Source: Public
An observer measured 5.93 inches of rain during the preceding 24-hours.				

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Slow moving thunderstorms produced very heavy rainfall and flash flooding across portions of western Wisconsin late in the evening on August 7th through the early morning hours on August 8th. Cooperative observers reported rainfall amounts of 6.50 inches at Hixton and 6.55 inches at Black River Falls in Jackson County. Law enforcement officials reported mudslides, washed out and flooded roadways across northern Trempealeau and northern Jackson Counties.				
GRANT COUNTY --- 0.9 NE POTOSI [42.69, -90.71]				
	08/09/09 14:02 CST	0		Thunderstorm Wind (MG 54 kt)
	08/09/09 14:02 CST	0		Source: Emergency Manager
GRANT COUNTY --- 0.5 W HAZEL GREEN [42.53, -90.44], 0.3 SW KIELER [42.58, -90.60]				
	08/09/09 14:15 CST	12K		Thunderstorm Wind (EG 56 kt)
	08/09/09 14:15 CST	0		Source: Emergency Manager
Emergency manager reported numerous power lines down between the cities of Kieler and Hazel Green.				
A cold front moved across southern Wisconsin during the afternoon hours on August 9th. This triggered severe thunderstorms and produced damaging winds across southern Grant County. The Emergency Manager reported a wind gust of 62 miles per hour and power lines knocked down in the southern portions of Grant County.				
BUFFALO COUNTY --- 3.9 WNW MONDOVI [44.60, -91.75], 2.9 NE MONDOVI ARPT [44.60, -91.53], 3.9 SE MONDOVI ARPT [44.53, -91.53], 2.2 N LOOKOUT [44.50, -91.74]				
	08/14/09 00:25 CST	10K		Flash Flood (due to Heavy Rain)
	08/14/09 02:30 CST	0		Source: Law Enforcement
Law Enforcement reported numerous mudslides in the northeast portions of Buffalo County and flooding of streets in the city of Mondovi.				
TREMPEALEAU COUNTY --- 2.9 WNW ELEVA [44.59, -91.52], 2.2 WNW OSSEO [44.59, -91.26], 2.6 N HALE [44.51, -91.27], 5.7 WNW CHIMNEY ROCK [44.50, -91.53]				
	08/14/09 00:25 CST	5K		Flash Flood (due to Heavy Rain)
	08/14/09 03:00 CST	0		Source: Law Enforcement
Law Enforcement reported water over several side roads in the town of Eleva and water over several county roads in northern Trempealeau County.				
A cluster of slow moving thunderstorms produced very heavy rain in the late evening hours of August 13th and the early morning hours of August 14th. This caused flooding of roadways and mudslides in northern Trempealeau and northern Buffalo Counties.				
JACKSON COUNTY --- 12.2 S CITY PT [44.17, -90.35]				
	08/28/09 17:00 CST	0		Hail (0.75 in)
	08/28/09 17:00 CST	0		Source: COOP Observer

A cooperative observer reported dime size hail three miles northwest of Mather.

A cold front triggered strong thunderstorms across portions of central Wisconsin in the early evening hours of August 28th. The strong thunderstorms produced dime size hail in extreme southeast Jackson County.